SECURE-TECH
DETENTION ELECTRONIC SYSTEMS
ETECH CONTROLS CORPORATION - MANUFACTURER
4051 ALVIS COURT #3, ROCKLIN, CALIFORNIA, USA 95677
TEL (916) 630-1300 • FAX (916) 630-1100 • FREE (800) 800-2523

MODEL
HC-0644

8 STATION INTERCOM SELECTOR

FEATURES:

➤ 8 OPTO-ISOLATED (7500V) INPUTS
➤ RS-485 COMMUNICATION AT 19,200 BAUD
➤ 24 STATUS LEDS
➤ 8 CALL-IN DISABLE / CCTV CALL-UP I/O
➤ SOUND ALARM DAUGHTERBOARD OPTION
➤ LAMP TEST
➤ ALL PLUG CONNECTION
➤ COMPRESSION SCREW PLUG OPTION
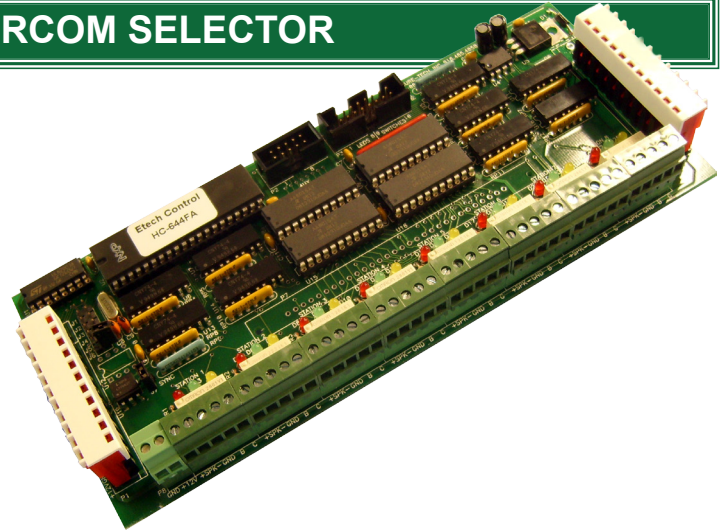➤ 3.25" SNAP TRACK MOUNT
➤ 2 YEAR WARRANTY

FUNCTIONAL DESCRIPTION:

The HC-0644 provides the functionality for eight audio channels. A call-in flashes the associated LED, and activates an audio tone at control panel. When selected, the LED becomes steady and the tone is canceled. On the same I/O points, call-In signals can be separately disabled or a CCTV picture can be selected to a call-up monitor. LEDs on the module, busy (GREEN), Call-in (momentary YELLOW), and Selected (RED) are provided for each intercom station. Either momentary or maintained control panel selector switches can be used. Multiple HC-0644's are buss connected to accommodate any number of intercom stations, with flashing synchronized. Lamp testing is provided. The BUSY I/O buss allows multiple shared masters (the first master selection is served) or master / slave operation (master overrides slave units). The BUSY function can also be set to call-up CCTV cameras, or as a "shared call-in". An HC-0654 Sound Alarm daughterboard may be added to the HC-0644-M. An RS-485 channel is provided for data communication with a PLC or computer. Programmable, this products' I/O can be configured to interface with an HC-0819 8-Door Control / Monitor, for both intercom and door functionality at an eight cell pod.

INPUTS / OUTPUTS:

Eight call-in inputs and eight relay outputs are provided. Relay DPDT contacts are UL/CSA rated for 125 VAC @ 0.5 amp and 30 VDC @ 2 amps.

Field wiring terminates on five pin Molex or Phoenix type quick disconnect plugs. Phoenix type compression screw connection plugs are optional, when the HC-0654 Sound Alarm daughterboard is not used.

The I/O to the associated control panel is connected via 10-pin and 16-pin male headers. The mating female ribbon type plugs are provided. These same I/O points may also be used to interface with other input and output modules.

An RS-485 communication channel is also provided.

SIZE:

3.25" W x 7.75" L x 0.93" D
82.6mm W x 196.9mm L x 23.5mm D

POWER:

12 - 14 VDC, 500ma

MODELS:

HC-0644-M   Molex
HC-0644-P   Phoenix (no sound alarm)

NOTE:

This products' I/O is programmable and is available with other software. Some other existing software packages provide: **Dual Call**, where each intercom station has two separate call-ins and LED outputs; **Scan**, where intercom stations are sequentially scanned for a set period of monitoring while in scan mode; and **Stacker**, where all call-in and select functions are stacked in a que for sequential annunciation and selection at a single LED and momentary switch on a remote control panel, as in a nightime transfer of functions to a central control room. Call for more information on existing software or to obtain custom software functions.

The Sign of Excellence

MODEL

HC-0644
8 STATION INTERCOM SELECTOR

HOOK-UP DIAGRAM

NOTE: THE SPEAKER AUDIO PAIR SHIELD IS MOMENTARILY USED AS A GROUND SOURCE FOR THE CALL INPUT SIGNAL BECAUSE AN INSERTION TYPE PLUG CAN ONLY ACCEPT ONE CONDUCTOR. IF THIS PRACTICE IS AN INSURMOUNTABLE PROBLEM FOR THE SPECIFYING ENGINEER, UTILIZE THE OPTIONAL COMPRESSION SCREW TYPE PLUGS, WHICH WILL PREVENT THE USE OF AN HC-0654 SOUND ALARM DAUGHTERBOARD PLUGGED DIRECTLY ONTO THE HC-0644 MOTHERBOARD.